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TCS-4549/67
14 June 1967

Copy 1

MEMORANDUM FOR THE RECORD

SUBJECT: Meeting Concerning the Duplicate Negative Requirements of the Center on Satellite Missions

1. At a meeting held in TID/SIEB on 6 June 1967, the duplicate negative requirement of the Center pertaining to satellite material was discussed by the following individuals:

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2. The advantages and disadvantages of three methods which might be employed to generate a suitable duplicate negative were presented group discussion followed.

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a. The first method presented was the use of film type in both the duplicate positive and duplicate negative steps (see figure 1. a.). This method had been previously employed until it was found, by our photo lab, to be unsatisfactory for those mission parts which require the duplicate positive to be dual printed.

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b. The use of film type for the production of a low contrast duplicate positive from which a duplicate negative on film type could be generated was the next method considered (see figure 1. b.) is a special low contrast duplicating material. When used in the duplicate positive step it affords a compression of the tonal range present on the original negative and permits the entire range

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Declass Review by NIMA / DoD

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to fall on the straight line portion of the [redacted] curve of the duplicate negative generated therefrom. The result, however, is a duplicate negative with an inherent base density of about 0.5. In use, the duplicate negative, therefore, requires extended exposure times which are considered unsatisfactory by our photo lab. Additionally, our photo lab feels that prints produced from this duplicate negative lack the necessary brilliance due to the low contrast. It was concluded that [redacted] should not be utilized.

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c. Film type [redacted] a direct reversal material, was then discussed (see figure 1. c.). The use [redacted] would provide a second generation duplicate negative which is one generation closer to the original negative than that produced by any of the other methods. Since the duplication process normally builds contrast and [redacted] utilizes one duplication less step, the contrast of the duplicate negative thus produced is more like that of the original negative than is the duplicate negative produced by the method described in paragraph 1. a. The use [redacted] appears quite promising and it was agreed that furthur studies [redacted] should be conducted as soon as the material becomes available. It is hoped that future use [redacted] will eliminate most of our present duplicate negative problems.

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d. Since [redacted] is not presently available in the quantities required for mission use, an interim solution to our present problems was proposed. A problem exists because the duplicate negative has previously been generated from a duplicate positive printed to meet the viewing specifications of the photointerpreter. A positive printed to these specifications is not always of the quality required to generate a satisfactory duplicate negative. This problem is usually encountered with approximately 25 percent of these mission parts which required dual printing [redacted] recommended.

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that for those cases in which the print produced for the photointerpreter is not of the proper density level for production of a satisfactory duplicate negative, a duplicate positive be generated to meet the required duplicating specifications. This print would be used only for the generation of the duplicate negative. It was agreed by all that this method would provide a better duplicate negative and probably solve the majority of problems presently encountered by the photo lab. In most cases, the duplicate positive produced for the photointerpreter meets the requirements dictated by the duplicating process and would therefore be used in the generation of the duplicate negative.

3. To conclude, it was decided that:

a. The previously employed method as presented in paragraph 1. a. was unsatisfactory.

25X1 b. The use [redacted] in the production of a low contrast duplicate negative was not advantageous and should be dropped from consideration.

25X1 c. The use [redacted] shows much promise and evaluation of the material should be continued as soon as it is available.

d. The use of a special, where required, duplicate positive for generation of a satisfactory duplicate negative should be adopted as an interim measure beginning with Mission [redacted]

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4. Following the meeting an administrative decision dictated that on Mission [redacted] the use of the interim method described in paragraph 3. d. be conducted only as a test and present duplication requirements be maintained until such time as the Center photo lab judges the proposed method to be satisfactory.

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Special Project Section, SIEB
TID/NPIC

Attachment: Figure 1

Distribution:
cy 1 - NPIC/TID/SIEB, w/a
2 - NPIC/TID/SIEB, w/a

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Attachment to
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TOP SECRET

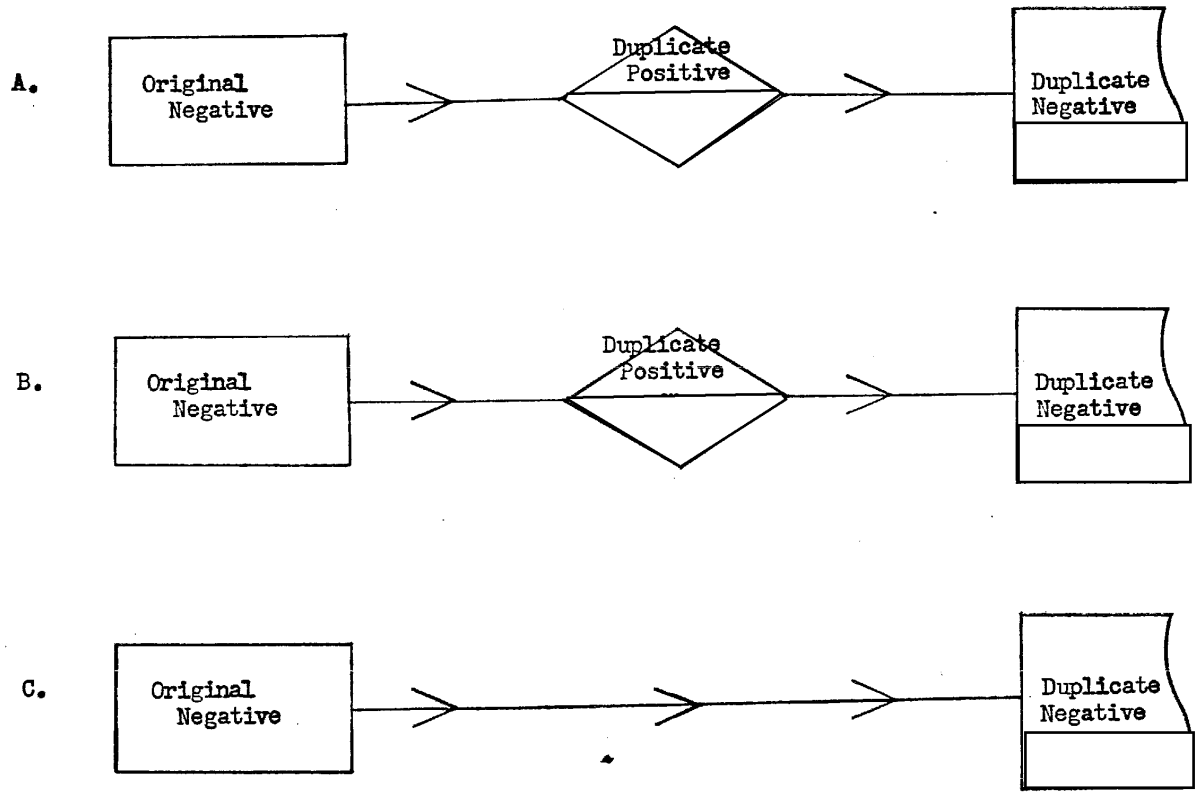

Figure 1

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21 April 1967

SCENES A, B and C

ILLEGIB

Each envelope contains a [redacted] of density cuts made from either the original negative, [redacted] RP material, or the standard [redacted] 3rd generation duplicate negative. The numbered ~~lables~~ labels indicate, in ascending order, the lightest to the darkest print. The colored line under the number identifies the chip in the following manner:

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Green = Original Negative

Red = [redacted] RP Negative

Black = Standard [redacted] DN

5

An additional chip will be found in the B and C envelopes. This is a chip cut from the [redacted] produced work copy provided for our use. It is so indicated on the label.

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Areas of special interest are indicated on one of the prints made from the original negative.

All prints, excluding that indicated as [redacted] produced, were made by our in-house lab facility on a [redacted] printer.

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[redacted]

21 April 1967

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SHIPPING INVOICE

Two (2) rolls of special duplicate negative material on Mission

25X1 [redacted]

Sixty-~~five~~ two (~~65~~ 62) Film Chips RSB

One (1) sheet of information

Note: The film chips must be returned to this office.

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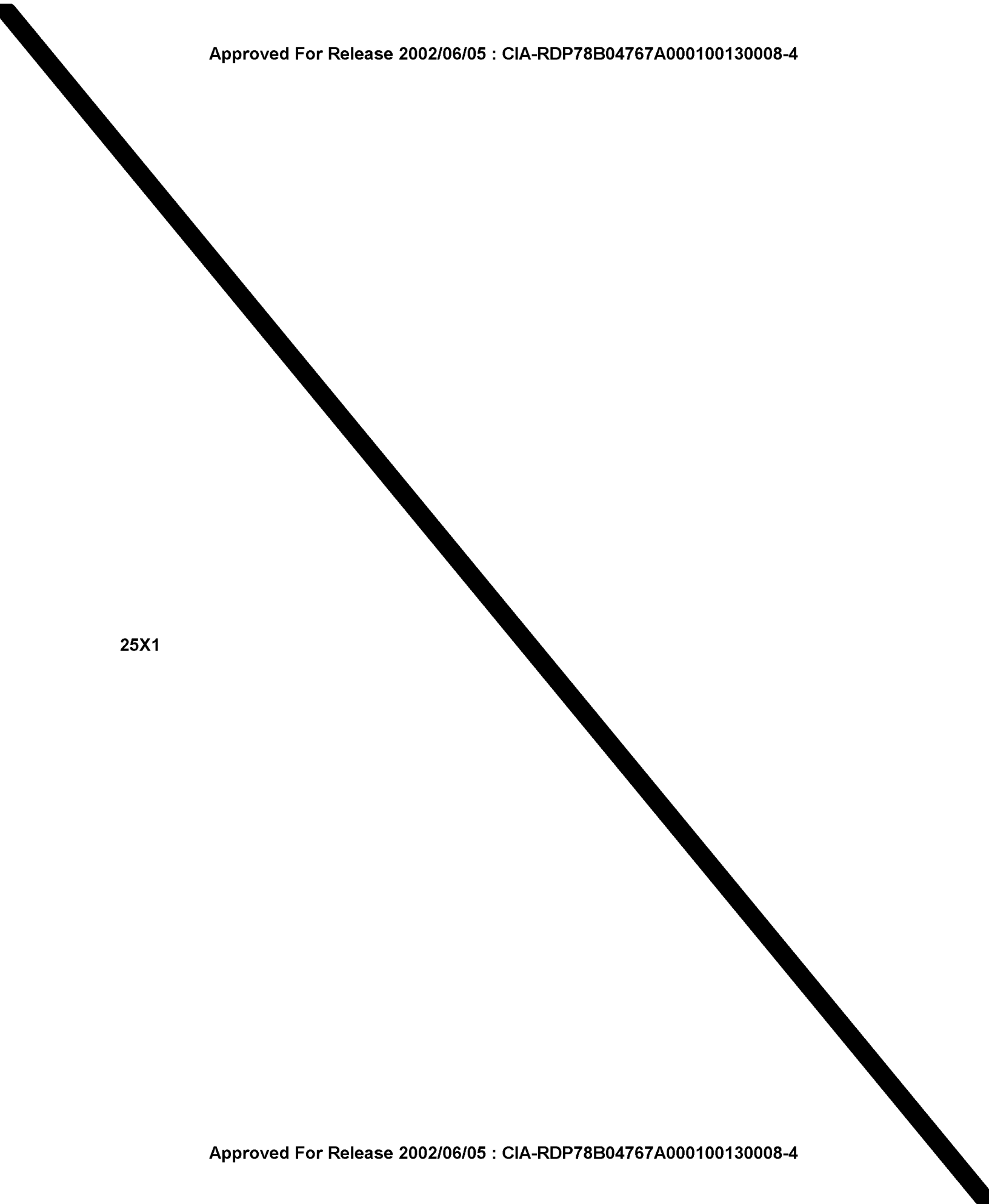

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